```
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RRRRRRRRRRR
RRR RRR
RRR RRR
RRR RRR
RRR RRR
                                                    RRR
                                                            FFF
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FFF
FFF
FFF
                              RRR
RRR
                                              RRR
RRR
RRR
                               RRR
                              RRR
RRR
RRR
                                                   RRR
RRR
RRR
```

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	\$	

Page

Version:

C++

C

'V04-000'

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AUTHOR BRIAN PORTER

CREATION DATE 22-MAY-1980

Modified by:

V03-002 SAR0075 Sharon A. Reynolds, 20-Jun-1983 Changed the carriage control in the 'format' statements for use with ERF.

V03-001 SAR0021 Sharon A. Reynolds, 4-May-1983
Made label_out a subroutine. Modified 'label_out' so that it calls 'get_queue_info' to get root flink.

v02-004 BP0004 Brian Porter, 23-JAN-1982 Made label list alphabetical.

v02-003 BP0003 Brian Porter, 16-NOV-1981 Added control-o code.

v02-002 BP0002 Brian Porter, 06-MAY-1981 Added an extra linefeed to the 'volume' herald. Removed RETURN 1 argument.

v02-001 BP0001 Brian Porter, 27-JAN-1981 Added code to put unit's in ascending order. Added code to reprint label heading for devices of different names.

Functional description:

000

This routine maintains a four dimensional list that keeps track of the errors that occur on unique volume labels as they traverse various devices. The first dimension has absolute linkage and the following format.

i	flink1	i
i	blink1	i
i	logging SID	i
i	root label flink	i
i	root label blink	i
İ	label entry count	i

The second dimension has absolute linkage and the following format.

i		flink2	i
i	ı	olink2	i
I 12	byte	label field	
i	root	name flink	i
i	root	name blink	i
i	name	entry count	i

The third dimension has absolute linkage and the following format.

flink3	i
blink3	i
 16 byte name	
 field	
 root unit flink	

The fourth dimension has absolute linkage and the following format

I flink4 I
I blink4 I
I ucb unit number I
I mount operation count I
I mount error count I
I dismount operation count I
I dismount error count I
I mount count I
I mount defore dismount I
I last mount operation cnt I
I last mount error count I

C**

Subroutine LABEL is called whenever mount/dismount or device error/timeout entries are encountered.

If the entry type is mount then an a search is made for a list entry where the device name, volume label and unit number are the same as the error log entry. If found then the counters for that list entry are updated, otherwise a new list entry is created. If the entry type is dismount then a search is made for a list entry that corresponds to this device name, volume label and unit number.

To overcome the problem of random mounts and dismounts of the same volume label on a particular drive two boolean variables and two counters are used. The boolean variables are used to synchronize correctness of mount/dismount sequences, the counters are used to store values of operation and error counts for individual units for particular volume labels.

subroutine label (entrance, search_sid, search_name_length, 1 search_name_string, search_unit, search_label, operation_count, 1 error_count)

Page

4

```
byte
                                                        lun
                                                        buffer0(2)
buffer1(6)
                            integer*4
                            integer*4
                                                       buffer2(8)
buffer3(9)
                            integer*4
                            integer*4
                                                        buffer4(12)
                             integer*4
                                                       root_logging_sid_flink
root_logging_sid_blink
Root_flink
Sid_count
Label_count
                             integer*4
                            integer*4
                            Integer*4
                            Integer*4
                            Integer*4
                            Integer*4
                                                        Name_count
                                                       Unit_count
Logging_sid_entry_count
Label_entry_count
                            Integer*4
                            Integer#4
                            Integer*4
                            Integer*4
Integer*4
                                                        Name_entry_count
                                                       Unit_entry_count
                                                        (buffer0(1),root_logging_sid_flink) (buffer0(2),root_logging_sid_blink)
                            equivalence
                            equivalence
                                                        flink1
blink1
                            integer*4
                            integer*4
                                                       logging_sid
root_label_flink
root_label_blink
                            integer#4
                            integer*4
                            integer*4
                                                       (buffer1(1),flink1)
(buffer1(2),blink1)
(buffer1(3),logging_sid)
(buffer1(4),root_label_flink)
(buffer1(5),root_label_blink)
(buffer1(6),label_entry_count)
                            equivalence
                            equivalence
                            equivalence
                            equivalence
                            equivalence
                           equivalence
                                                       flink2
blink2
                            integer*4
                            integer*4
                            byte
                                                       label_array(12)
                            character*12
                                                       label_string
                                                       root_name_flink
root_name_blink
                            integer*4
                            integer*4
                                                       (buffer2(1),flink2)
(buffer2(2),blink2)
(buffer2(3),label_array)
(label_array,label_string)
(buffer2(6),root_name_flink)
(buffer2(7),root_name_blink)
(buffer2(8),name_entry_count)
                            equivalence
                            equivalence
                            equivalence
                            equivalence
                            equivalence
                            equivalence
                            equivalence
                                                        flink3
blink3
                            integer*4
                            integer*4
```

M 2 16-Sep-1984 00:05:01 5-Sep-1984 13:59:32

VAX-11 FORTRAN V3.4-56 DISK\$VMSMASTER: [ERF.SRC]LABEL.FOR; 1

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PI

EI

V

```
16-Sep-1984 00:05:01
5-Sep-1984 13:59:32
LABEL
                                                                                                  VAX-11 FORTRAN V3.4-56
DISK$VMSMASTER:[ERF.SRC]LABEL.FOR;1
                                                                                                                                           Page
byte
                                    search_name_length
                  character*12
                                    search_label
                  logical*1
                                    lib$get_vm
                  integer*4
                                    lib$extzv
                  integer*4
                                    compress4
                  integer*4
                                    operation_count
                                    error_count
label_operation_count
                  integer*4
                  integer*4
                  integer*4
                                    label_error_count
                  logical*1
                                    label_herald_printed
                  logical*1
                                    sid_herald_printed
                                    operation_width error_width
                  byte
                  byte
                                    mount_width
                  byte
                  integer*4
                                    insert_blink
                  character*15
                                    previous_name_string
                  call movc5 (%val(search_name_length),%ref(search_name_string),%val(42),
1 %val(15),%ref(search_name))
                  logging_sid_entry_address = root_logging_sid_flink
                 do 100, i = 1, logging_sid_entry_count
                 call movc3 (%val(24),%val(logging_sid_entry_address),buffer1)
        5
                  if (logging_sid .eq. search_sid) then
                  label_entry_address = root_label_flink
                  do 90, j = 1, label_entry_count
                  call movc3 (%val(32),%val(label_entry_address),buffer2)
        8
                  if (search_label .eq. label_string) then
                  name_entry_address = root_name_flink
                  do 80,k = 1,name_entry_count
                  call movc3 (%val(36),%val(name_entry_address),buffer3)
         10
                  if (search_name .eq. name_string) then
                  unit_entry_address = root_unit_flink
                  do 60, l = 1, unit_entry_count
```

FI

```
LABEL
                                                                  16-Sep-1984 00:05:01
5-Sep-1984 13:59:32
call movc3 (%val(48),%val(unit_entry_address),buffer4)
        15
                if (search_unit .eq. ucb_unit_number) then
                goto (300,400) entrance
                return
                 insert blink = blink4
                if (ucb_unit_number .gt. search_unit) goto 65
                unit_entry_address = flink4
        60
                continue
                insert_blink = root_unit_blink
        65
                if (entrance .eq. 2) return
                call movc5 (%val(0),,%val(0),%val(48),buffer4)
                if(lib$get_vm(((48+7)/8)*8,unit_entry_address)) then
                call insque (%val(unit_entry_address),%val(insert_blink))
                ucb_unit_number = search_unit
                unit_entry_count = unit_entry_count + 1
                call movl (unit_entry_count, %val(name_entry_address + 32))
                goto 15
endif
                return
                endif
                name_entry_address = flink3
        80
                continue
                if (entrance .eq. 2) return
                call movc5 (%val(0),,%val(0),%val(36),buffer3)
                 if (lib$get_vm(((36+7)/8)*8,name_entry_address)) then
                 call insque (%val(name_entry_address),%val(root_name_blink))
                name_length = search_name_length
                name_string = search_name
                 root_unit_flink = name_entry_address + 24
```

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VAX-11 FORTRAN V3.4-56 DISK\$VMSMASTER:[ERF.SRC]LABEL.FOR;1

```
LABEL
                                                                                            VAX-11 FORTRAN V3.4-56
DISK$VMSMASTER: [ERF.SRC]LABEL.FOR; 1
                                                                                                                                  Page
root_unit_blink = root_unit_flink
                 call movc3 (%val(28),name_length,%val(name_entry_address + 8))
                 name_entry_count = name_entry_count + 1
                 call movl (name_entry_count,%val(label_entry_address + 28))
                 goto 10
endif
                 return
                 endif
                 insert_blink = blink2
                 go 85,m = 1,12
                 if (ichar(label_string(m:m)) - ichar(search_label(m:m))) 87,85,95
        85
                 continue
        87
                 label_entry_address = flink2
        90
                 continue
                 insert_blink = root_label_blink
        95
                 if (entrance .eq. 2) return
                call movc5 (%val(0),,%val(0),%val(32),buffer2)
                 if (lib$get_vm(((32+7)/8)*8, label_entry_address)) then
                 call insque (%val(label_entry_address),%val(insert_blink))
                 root_name_flink = label_entry_address + 20
                 root_name_blink = root_name_flink
                 label_string = search_label
                 call movc3 (%val(24), %ref(label_string), %val(label_entry_address + 8))
                 label_entry_count = label_entry_count + 1
                 call movl (label_entry_count,%val(logging_sid_entry_address + 20))
                 goto 8 endif
                 return
                 endif
                 logging_sid_entry_address = flink1
```

```
E 3
16-Sep-1984 00:05:01
5-Sep-1984 13:59:32
LABEL
                                                                                                 VAX-11 FORTRAN V3.4-56
DISK$VMSMASTER:[ERF.SRC]LABEL.FOR;1
                                                                                                                                         Page
100
                  continue
                  if (entrance .eq. 2) return
                  call movc5 (%val(0),,%val(0),%val(24),buffer1)
                  if (lib$get_vm(((24+7)/8)*8,logging_sid_entry_address)) then
                  if (logging_sid_entry_count .eq. 0) then
                  root_logging_sid_flink = %loc(root_logging_sid_flink)
                 root_logging_sid_blink = %loc(root_logging_sid_flink)
endif
                  call insque (%val(logging_sid_entry_address),
1 %val(root_logging_sid_blink))
                  logging_sid = search_sid
                 root_label_flink = logging_sid_entry_address + 12
                 root_label_blink = root_label_flink
                  logging_sid_entry_count = logging_sid_entry_count + 1
                 call movc3 (%val(16), logging_sid,%val(logging_sid_entry_address + 8))
                 goto 5
endif
                 return
                 action routine for MOUNT VOLUME calls
        C
         300
                 continue
                 last_valid_mount_opration_count = operation_count
                 last_valid_mount_error_count = error_count
                 mounted = .true.
                 call movc3 (%val(40),ucb_unit_number,%val(unit_entry_address + 8))
                 return
                  action routine for DISMOUNT VOLUME calls
         400
                  continue
                  if (mounted) then
```

Page 10

```
F 3
16-Sep-1984 00:05:01
5-Sep-1984 13:59:32
LABEL
                                                                                                                      VAX-11 FORTRAN V3.4-56
DISK$VMSMASTER:[ERF.SRC]LABEL.FOR:1
if (operation_count .ge. last_valid_mount_opration_count
                        .and.
                      1 error_count .ge. last_valid_mount_error_count) then
                     ucb_mount_operation_count = ucb_mount_operation_count +
                     1 last_valid_mount_opration_count
                     ucb_mount_error_count = ucb_mount_error_count +
1 last_valid_mount_error_count
                     ucb_dismount_operation_count = ucb_dismount_operation_count +
1 operation_count
                     ucb_dismount_error_count = ucb_dismount_error_count + error_count
                     sye_mount_count = sye_mount_count + 1
                     mounted = .false.
                     call movc3 (%val(40),ucb_unit_number,%val(unit_entry_address + 8))
                     endif
                     endif
                     return
                     Entry GET_QUEUE_INFO (ROOT_FLINK,SID_COUNT, 1 LABEL_COUNT, NAME_COUNT, UNIT_COUNT)
                     Root_flink = root_logging_sid_flink
Sid_count = logging_sid_entry_count
Label_count = label_entry_count
Name_count = name_entry_count
                     Unit_count = unit_entry_count
Return
                     End
```

I 3 16-Sep-1984 00:05:01 VAX-11 FORTRAN V3.4-56 5-Sep-1984 13:59:32 DISK\$VMSMASTER: LERF.SRCJLABEL.FOR; 1

```
J 3
16-Sep-1984 00:05:01
5-Sep-1984 13:59:32
```

Subroutine LABEL_OUT (lun)

**

Functional Description:

This module handles the output of the volume summary information.

```
byte
                          Lun
                          buffer0(2)
buffer1(6)
buffer2(8)
buffer3(9)
integer*4
integer*4
integer*4
integer*4
integer*4
                          buffer4(12)
                          root_logging_sid_flink
root_logging_sid_blink
integer*4
integer*4
                          (buffer0(1),root_logging_sid_flink)
(buffer0(2),root_logging_sid_blink)
equivalence
equivalence
                          flink1
blink1
integer*4
integer*4
                          logging_sid
root_label_flink
root_label_blink
integer*4
integer*4
integer*4
                          (buffer1(1),flink1)
(buffer1(2),blink1)
(buffer1(3),logging_sid)
equivalence
equivalence
equivalence
                          (buffer1(4),root_label_flink)
(buffer1(5),root_label_blink)
(buffer1(6),label_entry_count)
equivalence
equivalence
equivalence
integer*4
                          flink2
blink2
integer*4
byte
                          label_array(12)
character*12
                          label_string
integer*4
                          root_name_flink
                          root_name_blink
integer*4
                          (buffer2(1),flink2)
(buffer2(2),blink2)
(buffer2(3),label_array)
(label_array,label_string)
(buffer2(6),root_name_flink)
(buffer2(7),root_name_blink)
(buffer2(8),name_entry_count)
equivalence
equivalence
equivalence
equivalence
equivalence
equivalence
equivalence
                          flink3
blink3
integer*4
integer*4
byte
                          name_array(16)
```

```
16-Sep-1984 00:05:01
5-Sep-1984 13:59:32
LABEL_OUT
                                                                                                   VAX-11 FORTRAN V3.4-56
DISK$VMSMASTER: [ERF.SRC]LABEL.FOR; 1
                                                                                                                                            Page 16
error_count
insert_blink
                  integer*4
                  integer*4
                                    label_entry_address
label_operation_count
                  integer*4
                  integer*4
                                    label_error_count
                  integer*4
                                    logging_sid_entry_address
lib$extzv
                  integer*4
                  integer*4
                  integer*4
                                    name_entry_address
                                    operation_count
search_sid
                  integer*4
                  integer*4
                  integer*4
                                    unit_entry_address
                  character*12
character*15
character*15
                                    search_label
                                    search_name_string
                                    search_name
                  character*15
                                    previous_name_string
                  Integer*4
                                    Logging_sid_entry_count
                                    Label_entry_count
                  Integer*4
                  Integer*4
                                    Name_entry_count
                  Integer*4
                                    Unit_entry_count
           Get the root flink for the volume information queue.
                  Call GET_QUEUE_INFO (root_logging_sid_flink,logging_sid_entry_count,
                  1 label_entry_count, name_entry_count, unit_entry_count)
                  logging_sid_entry_address = root_logging_sid_flink
                  do 200, i = 1, logging_sid_entry_count
                  call movc3 (%val(24),%val(logging_sid_entry_address),buffer1)
                  sid_herald_printed = .false.
                  label_entry_address = root_label_flink
                  do 195,j = 1,label_entry_count
                  label_herald_printed = .false.
                  call movc3 (%val(32),%val(label_entry_address),buffer2)
                  name_entry_address = root_name_flink
                  do 190,k = 1,name_entry_count
                  call movc3 (%val(36),%val(name_entry_address),buffer3)
                  unit_entry_address = root_unit_flink
                  do 185, l = 1, unit_entry_count
                  call movc3 (%val(48),%val(unit_entry_address),buffer4)
                  if (sye_mount_count .ne. 0) then
```

```
VAX-11 FORTRAN V3.4-56
DISK$VMSMASTER: [ERF.SRC]LABEL.FOR; 1
LABEL_OUT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Page 17
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019
                                                            if (.not. sid_herald_printed) then
                                                           call set_rab$v_cco
                             C
                                                           call frctof (lun)
                                                           call linchk (lun.3)
                                                           write(lun,105) logging_sid
format(/' ','VOLUME LABEL(S) LOGGED BY SID ',z8.8,//,
1 t34,'QIO($)',t44,'ERROR($)',t54,'MOUNT($)')
                              105
                                                           sid_herald_printed = .true.
endif
                                                            if (name_string .ne. previous_name_string)
                                                            1 label_herald_printed = .false.
                                                           if (.not. label_herald_printed) then
                                                           call linchk (lun,3)
                                                           write(lun,110) label_string
format(/' ',t8,'LABEL -- ',a,/)
                             110
                                                           label_herald_printed = .true.
endif
                                                            label_operation_count = ucb_dismount_operation_count -
                                                            1 ucb_mount_operation_count
                                                           label_error_count = ucb_dismount_error_count - ucb_mount_error_count
                                                           operation_width = compress4 (label_operation_count)
                                                           error_width = compress4 (label_error_count)
                                                           mount_width = compress4 (sye_mount_count)
                                                           call linchk (lun,1)
                                                         write(lun,115) name_string(1:name_length),ucb_unit_number,
1 label_operation_count,label_error_count,sye_mount_count
format(' ',t8,' ',a<name_length>,i<compress4 (ucb_unit_number)>,':',
1 t<40 - operation_width>,i<operation_width>,'.',
1 t<52 - error_width>,i<error_width>,'.',
1 t<62 - mount_width>,i<mount_width>,'.')
endif
                             115
                                                           unit_entry_address = flink4
                                                           previous_name_string = name_string
                              185
                                                            continue
                                                           name_entry_address = flink3
```

```
N 3
16-Sep-1984 00:05:01
5-Sep-1984 13:59:32
LABEL_OUT
                                                                                                                             VAX-11 FORTRAN V3.4-56
DISK$VMSMASTER: [ERF.SRC]LABEL.FOR; 1
           190
                       continue
                       label_entry_address = flink2
           195
                       continue
                       logging_sid_entry_address = flink1
           200
                       continue
                       return
                       end
PROGRAM SECTIONS
                                                                      Attributes
     Name
                                                          Bytes
                                                                     PIC CON REL LCL SHR NOEXE PIC CON REL LCL NOSHR NOEXE
                                                                                                                RD NOWRT LONG
     $CODE
                                                             676
173
464
                                                                                               SHR NOEXE
   1 SPDATA
   2 $LOCAL
                                                                                                                RD
                                                                                                                       WRT LONG
                                                            1313
     Total Space Allocated
ENTRY POINTS
     Address Type Name
  0-00000000
                           LABEL_OUT
VARIABLES
     Address Type Name
                                                                              Address Type Name
   2-00000078
                                                                            2-00000058
                                                                                             1:4
                                                                                                   BLINK2
BLINK4
                           BLINK1
   2-00000034
                    I+4
                                                                            2-00000004
                           BLINK3
                                                                                             ****
                                                                                                   ERROR_COUNT
                                                                            2-000000DC
2-00000074
   2-000000D8
                    1 +4
                           ENTRANCE
                           ERROR WIDTH
   2-00000094
                    L:1
                                                                                                    FLINKT
   2-00000054
2-00000000
2-000000E0
                                                                            2-00000030
2-0000010C
                                                                                                   FLINK3
                    1+4
                           FLINK4
                    1+4
                                                                            2-00000110
                                                                                             1 +4
                           INSERT_BLINK
   2-00000114
                                                                            2-00000118
                                                                                             1 +4
                    1+4
                                                                                                   LABEL_ENTRY_COUNT
LABEL_HERALD_PRINTED
LABEL_STRING
LAST_VALID_MOUNT_OPRATION_COUNT
LIB$GET_VM
LCGGING_SID_ENTRY_ADDRESS
                                                                            2-00000088
                           LABEL_ENTRY_ADDRESS
LABEL_ERROR_COUNT
LABEL_OPERATION_COUNT
LAST_VALID_MOUNT_ERROR_COUNT
   2-000000E4
                                                                                             1+4
                    1 =4
                                                                            2-00000099
   2-000000EC
                    1+4
                                                                                             L+1
                                                                          2-0000005C
2-00000028
2-00000098
2-00000060
AP-00000004a
   2-000000E8
                    1+4
                                                                                             CHAR
   2-0000002C
                    1 +4
                    1+4
   2-000000F4
                           LIBSEXTZV
   2-0000007C
                    1+4
                                                                                             1 ±4
                           LOGGING_SID_ENTRY_COUNT
   2-00000108
                    1+4
                                                                                            L+1
                                                                           2-00000024
2-000000F8
2-00000038
                                                                                                   MOUNT BEFORE DISMOUNT
NAME_ENTRY_ADDRESS
NAME_LENGTA
   2-00000020
                    L+4
                           MOUNTED
                                                                                            L*4
   2-00000095
                    L+1
                           MOUNT_WIDTH
   2-00000070
                           NAME_ENTRY_COUNT
```

```
16-Sep-1984 00:05:01 VAX-11 FORTRAN V3.4-56
5-Sep-1984 13:59:32 DISK$VMSMASTER:[ERF.SRC]LABEL.FOR;1
LABEL_OUT
                                                                                                                                                                                                                                                       Page 19
                          CHAR NAME STRING
L*1 OPERATION WIDTH
I*4 ROOT LABEE BLINK
I*4 ROOT LOGGING SID BLINK
I*4 ROOT NAME BLINK
I*4 ROOT UNIT BLINK
CHAR SEARCH LABEL
L*1 SEARCH NAME LENGTH
I*4 SEARCH SID
L*1 SID HERALD PRINTED
I*4 UCB DISMOUNT ERROR COUNT
I*4 UCB UNIT NUMBER
I*4 UNIT ENTRY COUNT
                                                                                                                                I*4 OPERATION COUNT
CHAR PREVIOUS NAME STRING
I*4 ROOT LABEL FLINK
I*4 ROOT LOGGING SID FLINK
I*4 ROOT NAME FLINK
I*4 ROOT UNIT FLINK
CHAR SEARCH NAME
CHAR SEARCH NAME
CHAR SEARCH NAME STRING
I*2 SEARCH UNIT
I*4 SYE MOUNT COUNT
I*4 UCB DISMOUNT OPERATION COUNT
I*4 UCB MOUNT OPERATION COUNT
I*4 UNIT ENTRY ADDRESS
                                                                                                         2-000000FC
2-00000080
2-0000008C
2-00000068
2-00000048
2-0000000A7
2-00000004
2-0000001C
2-00000014
2-00000014
2-00000014
     2-00000039
     2-00000039
2-00000084
2-00000090
2-0000006C
2-00000098
2-00000097
2-00000100
2-0000018
2-0000018
2-00000018
    2-00000050
ARRAYS
       Address Type Name
                                                                             Bytes Dimensions
                                                                                            (2)
(6)
(8)
      -0000008C
                                      BUFFERO
     2-00000074
2-00000054
                                      BUFFER1
                            1+4
                                     BUFFER2
BUFFER3
                            1+4
     -00000030
                            1+4
                                                                                            (9)
                                                                                           (12)
     2-00000000
2-0000005C
                           1+4
                                     BUFFER4
                                     LABEL_ARRAY
                           L+1
    2-00000038
                           L+1
                                                                                            (16)
LABELS
                           Label
                                                   Address
                                                                       Label
                                                                                                                   Label
                                                                                                                                            Address
                                                                                                                                                               Label
                                                                                                                                                                                                           Label
                                                                                                                                                                                                                                    Address
                                                                                                                                                                                                                                                       Label
       Address
                                                                                               Address
                                                                                                                                                                                       Address
                                                                                                                                                                                                                                                        195
   1-00000008
                                               1-00000054 110*
                                                                                           1-00000068 115'
                                                                                                                                                               185
                                                                                                                                                                                                           190
                            200
            **
FUNCTIONS AND SUBROUTINES REFERENCED
                                                                                    Type Name
                                                                                                                                                                   Type Name
   Type Name
     I+4 COMPRESS4
                                                                                                FRCTOF
                                                                                                                                                                               GET_QUEUE_INFO
                                                                                                MOVC3
                LINCHK
COMMAND QUALIFIERS
   FORTRAN /LIS=LIS$:LABEL/OBJ=OBJ$:LABEL MSRC$:LABEL
   /CHECK=(NOBOUNDS,OVERFLOW,NOUNDERFLOW)
/DEBUG=(NOSYMBOLS,TRACEBACK)
    /STANDARD=(NOSYNTAX,NOSOURCE_FORM)
   /SHOW=(NOPREPROCESSOR, NOINCLODE, MAP)
/F77 /NOG_FLOATING /14 /OPTIMIZE /WARNINGS /NOD_LINES /NOCROSS_REFERENCE /NOMACHINE_CODE /CONTINUATIONS=19
```

EN

VA

LABEL_OUT

C 4 16-Sep-1984 00:05:01 VAX-11 FORTRAN V3.4-56 5-Sep-1984 13:59:32 DISK\$VMSMASTER:[ERF.SRC]LABEL.FOR;1

COMPILATION STATISTICS

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7.35 seconds 15.76 seconds 182 208 pages

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